PATENT COOPERATION TREATY

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From the INTERNATIONAL SEARCHING AUTHORITY

| To: | PCT | | | |
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| JOHN R. BUSER 1000 TOWN CENTER | NOTIFICATION OF TRANSMITTAL OF | | | |
| TWENTY-SECOND FLOOR | THE INTERNATIONAL SEARCH REPORT AND | | | |
| SOUTHFIELD, MI 48075 | THE WRITTEN OPINION OF THE INTERNATIONAL | | | |
| | SEARCHING AUTHORITY, OR THE DECLARATION | | | |
| CCCI OIZZPCT3 | (PCT Rule 44.1) | | | |
| | Date of mailing | | | |
| | (day/month/year) 02 SEP 2005 | | | |
| Applicant's or agent's file reference 2004008613 | FOR FURTHER ACTION See paragraphs 1 and 4 below | | | |
| International application No. PCT/US05/02623 | International filing date (day/month/year) 31 January 2005 (31.01.2005) | | | |
| Applicant HILDEBRAND, JOHN G. | Duc: 11-2-05 | | | |
| 57 | | | | |
| The applicant is hereby notified that the international search have been established and are transmitted herewith. | ch report and the written opinion of the International Searching Authority | | | |
| Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the clai | ms of the international application (see Rule 46): | | | |
| When? The time limit for filing such amendments is search report. | normally two months from the date of transmittal of the international | | | |
| Where? Directly to the International Bureau of WIPO 1211 Geneva 20, Switzerland, Facsimile No.: | | | | |
| For more detailed instructions, see the notes on the ac | | | | |
| 2. The applicant is hereby notified that no international search | | | | |
| Article 17(2)(a) to that effect and the written opinion of th | e International Searching Authority are transmitted herewith. | | | |
| 3. With regard to the protest against payment of (an) addit | | | | |
| the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. | | | | |
| no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made. | | | | |
| 4. Reminders | the internal confined will be sublished by the International | | | |
| Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication. | | | | |
| The applicant may submit comments on an informal basis on | the written opinion of the International Searching Authority to the | | | |
| International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date. | | | | |
| Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry | | | | |
| into the national phase before those designated Offices. | (or later) will apply even if no demand is filed within 19 months | | | |
| In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months. See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, | | | | |
| Volume II, National Chapters and the WIPO Internet site. | | | | |
| Name and mailing address of the ISA/ US | Authorized officer | | | |
| Mail Stop PCT, Attn: ISA/US Commissioner for Patents | Ayaz R Sheith | | | |
| P.O. Box 1450 Alexandria, Virginia 22313-1450 | Telephone No. 571-272-2100 | | | |
| Facsimile No. (571) 273-8300 | | | | |
| Form PCT/ISA/220 (January 2004) (See notes on accompanying she | | | | |

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

| | cant's or agent's file reference 008613 | | Form PCT/ISA/220 re applicable, item 5 below. |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| | national application No. US05/02623 | International filing date (day/month/year) 31 January 2005 (31.01.2005) | (Earliest) Priority Date (day/month/year) 29 January 2004 (29.01.2004) |
| Appli HILD | cant EBRAND, JOHN G. | | |
| This i | ding to Article 18. A copy is being international search report consists. It is also accompanied assis of the Report a. With regard to the language, the language in which it was filed, under the international furnished to this Author with regard to any nucleot. Certain claims were found Unity of invention is lacking with regard to the title, the text is approved as submitted. | by a copy of each prior art document cited in international search was carried out on the banless otherwise indicated under this item. It search was carried out on the basis of a transmity (Rule 23.1(b)). Ide and/or amino acid sequence disclosed in the unsearchable (See Box No. II) In (See Box No. III) | in this report. asis of the international application in the elation of the international application |
| 5. | With regard to the abstract, the text is approved as substract the text has been established. | d, according to Rule 38.2(b), by this Authorit | y as it appears in Box No. IV. The applicant |
| 6. | may, within one month from | n the date of mailing of this international sear | ch report, submit comments to this Authority |
| ; | | published with the abstract is Figure No. 1 | |
| | as suggested by the | e applicant. Authority, because the applicant failed to sug | gest a figure. |
| | | Authority, because this figure better character | |
| 1 | | published with the abstract. | |
| | b. | paorioned with the abstract. | |

Form PCT/ISA/210 (first sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US05/02623

| A. CLAS | SIFICATION OF SUBJECT MATTER | | | | | |
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| PC(7) : G06F 9/00 | | | | | | |
| US CL | : 713/100 | | to the | | | |
| | International Patent Classification (IPC) or to both nat | ional class | ification and IPC | | | |
| | DS SEARCHED | <u>-</u> | | | | |
| | cumentation searched (classification system followed b | y classific | ation symbols) | | | |
| U.S. : 71 | 13/100 | | | | | |
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| Documentati | on searched other than minimum documentation to the | extent tha | t such documents are included i | n the fields searched | | |
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| Electronic de | ta base consulted during the international search (name | e of data b | ase and, where practicable, sear | rch terms used) | | |
| Electronic da | the base consulted during the international search (name | o or data o | ,,,,, | , | | |
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| C. DOC | UMENTS CONSIDERED TO BE RELEVANT | | | | | |
| Category * | Citation of document, with indication, where ap | opropriate. | of the relevant passages | Relevant to claim No. | | |
| X | US 2002/0075954 A1 (VINCE) 20 June 2002 (20.06 | | | 1, 3-6, 13-22, and 26 | | |
| | figure 1, figure 2 | | | | | |
| Y | paragraph 0002-0004, 0018, 0020, 0027, 0029, and | 0031. | | 2, 7-12, 23-25, and 27- | | |
| | VIG 2002/010 (020 A1 /I PIGER / 1) 0 (D. 1) | 1002 (26.1 | 2.2002) figure 2 figure 11 | 28 2, 7-12, 23-25, and 27- | | |
| Y | US 2002/0196939 A1 (UNGER et al) 26 December 2 figure 12 | 2002 (20.1 | 2.2002), figure 2, figure 11, | 28 | | |
| | paragraph 0008, 0039. | | | | | |
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| Furthe | r documents are listed in the continuation of Box C. | | See patent family annex. | | | |
| | Special categories of cited documents: | | later document published after the inter | national filing date or priority date | | |
| Ì | | | and not in conflict with the application principle or theory underlying the inver | but cited to understand the | | |
| | at defining the general state of the art which is not considered to be of r relevance | | • | | | |
| "E" earlier ap | eplication or patent published on or after the international filing date | "X" | document of particular relevance; the considered novel or cannot be consider | ed to involve an inventive step | | |
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| specified | | | considered to involve an inventive step with one or more other such documents | when the document is combined s, such combination being obvious | | |
| "O" documen | nt referring to an oral disclosure, use, exhibition or other means | | to a person skilled in the art | _ | | |
| "P" documen | at published prior to the international filing date but later than the | "&" | document member of the same patent f | amily | | |
| | date claimed | | | | | |
| Date of the actual completion of the international search Date of mailing of the international search report 12 SEP 2005 | | | | | | |
| 12 August 2005 (12 08 2005) | | | | | | |
| 12 August 2005 (12.08.2005) Name and mailing address of the ISA/US | | | zed officer | t- | | |
| Mail Stop PCT, Attn: ISA/US | | | Sheikh | | | |
| | mmissioner for Patents | | | | | |
| | D. Box 1450 exandria, Virginia 22313-1450 | Telepho | ne No. 5717-272-2100 | | | |
| | o. (571) 273-8300 | | | | | |

Form PCT/ISA/210 (second sheet) (January 2004)

PATENT COOPERATION TREATY

| PATENT COOPERATION TREAT Y From the | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|------------------------------------------------------------|------------------------------|------------------------------------------------------------------------------------------|
| | SEARCHING AUT | HORITY | | |
| To: | | | | PCT |
| JOHN R. BUSER 1000 TOWN CEN | | | | |
| TWENTY-SECO | ND FLOOR | | WR | LITTEN OPINION OF THE |
| SOUTHFIELD, 1 | MI 48075 | | | ONAL SEARCHING AUTHORITY |
| | | | 11(12)(11) | 51.1. 52.2 10.1.0 |
| | | | | (PCT Rule 43bis.1) |
| | | | Date of mailing | U2 SEP 2005 |
| Applicant's or age | ent's file reference | | (day/month/year) FOR FURTHER | |
| Applicant's or ago | | 0 03 | TORTORIZER | See paragraph 2 below |
| 2004008613 | CCCL | 0122PCTP3 | | [D: |
| International appl | ication No. | International filing date | (day/month/year) | Priority date (day/month/year) |
| PCT/US05/02623 | | 31 January 2005 (31.01. | 2005) | 29 January 2004 (29.01.2004) |
| International Pate | nt Classification (IPC | c) or both national classificat | ion and IPC | |
| IPC(7): G06F 9/06 | 0 and US Cl.: 713/10 | 0 | | |
| Applicant | | | | |
| HII DEDD VVID | IOHN G | | | |
| HILDEBRAND, | JOZIN G. | | | |
| 1. This opinion | contains indications | relating to the following iten | ns: | |
| Box N | No. I Basis of | the opinion | | |
| D Bow N | Jo II Priority | | | |
| Box N | • | | | |
| Box N | No. III Non-esta | blishment of opinion with re | egard to novelty, inve | ntive step and industrial applicability |
| Box | o. IV Lack of unity of invention | | | |
| Box h | Jo V Reasone | d statement under Rule 43 <i>bi</i> . | s.1(a)(i) with regard t | o novelty, inventive step or industrial |
| Z Box1 | | ility; citations and explanation | | |
| □ Box N | No. VI Certain d | locuments cited | | |
| | | | nlication | |
| ☐ Box; | | lefects in the international ap | | |
| Box 1 | No. VIII Certain o | observations on the internation | onal application | |
| 2. FURTHER | ACTION | | | |
| If a demand | for international pre | eliminary examination is ma | de, this opinion will | be considered to be a written opinion of t |
| International | Preliminary Exami | ning Authority ("IPEA") 6 | except that this does | not apply where the applicant chooses he International Bureau under Rule 66.1 <i>bis</i> |
| Authority ofl | ner than this one to lopinions of this Interr | ue the IFEA and the chosen national Searching Authority | will not be so consid | ered. |
| that written opinions of this International Searching Authority will not be so considered. | | | | |
| If this opinio | on is, as provided ab | ove, considered to be a wri | tten opinion of the I | PEA, the applicant is invited to submit to t |
| IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailir of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. | | | | |
| | | | iom me priority date, | whichever expires fater. |
| For further options, see Form PCT/ISA/220. | | | | |
| 2 5 6-4 1 | etaile eentt- P- | DCT/IQ A /220 | | |
| 3. For further d | etails, see notes to Fo | MM rC 1/13/1/220. | | |
| | | T TO | Authorized office | |
| | g address of the ISA/ | US | | |
| | p PCT, Attn: ISA/US sioner for Patents | | Ayaz R Sheikh | |
| P.O. Box | | 0 | Tolonbour | 571-272-2100 |
| Facsimile No. (57 | | • | Telephone No. | и 1-272-21UU |
| | (cover sheet) (Janua | | | |

International application No.

PCT/US05/02623

| Box No. I Basis of this opinion | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| | | |
| 1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. | | |
| This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)). | | |
| 2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of: | | |
| a. type of material | | |
| a sequence listing | | |
| table(s) related to the sequence listing | | |
| b. format of material | | |
| in written format | | |
| in computer readable form | | |
| c. time of filing/furnishing | | |
| contained in international application as filed. | | |
| filed together with the international application in computer readable form. | | |
| furnished subsequently to this Authority for the purposes of search. | | |
| | | |
| In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished. | | |
| 4. Additional comments: | | |
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International application No. PCT/US05/02623

| | 2, 7-12 and 23-25 1, 3-6, 13-22, and 26 | YE |
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| | 1,5 0, 15 22, 414 20 | NC |
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| Claims | NONE | YE |
| Claims | 1-28 | NC |
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| | Claims | Claims 1-28 Claims NONE |

International application No. PCT/US05/02623

| Supplemental Box In case the space in any of the preceding boxes is not sufficient. |
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| V. 2. Citations and Evalenctions: |
| V. 2. Citations and Explanations: Claims 1, 3-6, 13-22, and 26 lack novelty under PCT Article 33(2) as being anticipated by Vince (U.S. Patent Publication No. 2002/0075954 A1). |
| Regarding claim 1, Vince teaches a method of supporting operation of legacy customer equipment in a system where at least a portion of the legacy customer equipment receives non-supported signals (figure 1), the method comprising: configuring a transcoding unit for operation with the legacy customer equipment (figure 2, reference number 10), the transcoding unit configured to transcode non-supported signals to supported signals which are compatible with the customer equipment (paragraph 0018). |
| Regarding claim 3, Vince teaches a method of transcoding dissimilar payloads carried in a first transport stream, the method comprising: demultiplexing the first transport stream to recover first and second payloads (figure 1, reference number 30); transcoding the second payload to a protocol associated with the first payload if a protocol associated with the second payload is dissimilar from the protocol associated with the first payload (figure 1, reference number 40/50/60); and multiplexing the first payload and the transcoded second payload to a second transport stream (figure 1, reference number 70). |
| Regarding claim 4, Vince teaches further comprising associating the first payload with MPEG-2 protocols and associating the second payload with AVC protocols such the second payload is transcoded to MPEG-2 protocols (paragraph 0001 and 0031). |
| Regarding claim 5, Vince teaches further comprising associating the AVC protocols with MPEG-4 protocols (paragraph 0027). |
| Regarding claim 6, Vince teaches further comprising associating the AVC protocols with H.264 protocols (paragraph 0027). |
| Regarding claim 13, Vince teaches further comprising associating the first transport stream with MPEG-2 protocols (paragraph 0003). |
| Regarding claim 14, Vince teaches further comprising determining if the protocol associated with the second payload is dissimilar form the protocol associated with the first payload as a function of instructions associated with the MPEG-2 protocols of the first transport stream (paragraph 0018). |
| Regarding claim 15, Vince teaches further comprising associating the first and second transport streams with MPEG-2 protocols (paragraph 0029). |
| Regarding claim 16, Vince teaches a system of providing digital television signals to a media output device, the system comprising: a host configured to decode signals carried in payloads of a first payload type for playback on the media output device (paragraph 0002/0003); and |
| a unit configured for transcoding digital television signals carried in payloads of a second payload type to the first payload type for output to the host, the second payload type being associated with protocols dissimilar to protocols associated with the first payload type (paragraph 0018). |

International application No. PCT/US05/02623

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Regarding claim 17, Vince teaches wherein the host is configured to only decode signals carried in the first payload type (paragraph 0029).

Regarding claim 18, Vince teaches wherein the first payload type is associated with MPEG-2 protocols (paragraph 0003).

Regarding claim 19, Vince teaches further comprising a provider for providing the signals in a first transport stream, wherein the first transport stream carries the signals in payloads of the first and second payload types (paragraph 0004).

Regarding claim 20, Vince teaches wherein the unit includes a demultiplexer for demultiplexing the first transport stream to recover the payloads (figure 1, reference number 30); a transcoder for transcoding the second payload type to the first payload type (figure 1, reference number 10); and a multiplexer for multiplexing payloads of the first payload type with transcoded payloads of the second payload type to a second transport stream for output to the host (figure 1, reference number 70).

Regarding claim 21, Vince teaches wherein the unit includes a bypass for bypassing payloads associated with the first payload type past the transcoder to the multiplexer such that the bypassed payloads are multiplexed at the multiplexer with the transcoded payloads (figure 1, reference number 82 and 84).

Regarding claim 22, Vince teaches wherein the transcoder only transcodes payloads from the second payload type to the first payload type (paragraph 0018).

Regarding claim 26, Vince teaches a transcoding unit for use with legacy set top boxes (STBs) which only supports playback of digital television (DTV) signals encoded according to non-advance video compression (AVC) standards and not DTV signals encoded according to AVC standards (paragraph 0002-0004), the transcoding unit comprising:

a transcoder configured to transcode DTV signals associated with the AVC standards to DTV signals associated with non-AVC standards so as to permit playback of the transcoded DTV signals with the legacy STB (paragraph 0018).

Claims 2, 7-12, 23-25, 27, and 28 lack an inventive step under PCT Article 33(3) as being obvious over Vince (U.S. Patent Publication No. 2002/0075954 A1) in view of Unger et al. (U.S. Patent Publication No. 2002/0196939 A1).

Regarding claim 2, Vince teaches all the limitations of claim 1, above. However, Vince does not teach wherein the legacy customer equipment are set top boxes (STBs) having onboard conditional access decryption capabilities and wherein the method further comprises configuring the transcoding unit to interface through a card interface of the STBs.

Unger et al. teaches wherein the legacy customer equipment are set top boxes (STBs) having onboard conditional access decryption capabilities (figure 2, reference number 36) and wherein the method further comprises configuring the transcoding unit to interface through a card interface of the STBs (paragraph 0039).

Regarding claim 7, Vince teaches all the limitations of claim 3, above. However, Vince does not teach further comprising decrypting conditional access (CA) encryption of the first transport stream prior to demultiplexing.

Unger et al. teaches further comprising decrypting conditional access (CA) encryption of the first transport stream prior to demultiplexing (figure 2, reference number 40).

Regarding claim 8, Vince as modified by Unger et al. teaches further comprising decrypting the CA encryption of the first transport stream in a set top box (STB) (see figure 2, reference number 40 within 36 of Unger et al.).

Regarding claim 9, Vince as modified by Unger et al. teaches further comprising demultiplexing, transcoding, and multiplexing the first and second payloads in a card inserted into a card slot of tile STB (see paragraph 0039 of Unger et al. and figure 2 of Vince).

Regarding claim 10, Vince as modified by Unger et al. teaches further comprising decoding copy protection of the first transport stream in the card and prior to the demultiplexing, transcoding, and multiplexing (see figure 11, reference number 604 of Unger et al.).

Regarding claim 11, Vince as modified by Unger et al. teaches further comprising encoding copy protection to the second transport stream (see paragraph 0008 of Unger et al.).

Regarding claim 12, Vince as modified by Unger et al. teaches further comprising transmitting the copy protection encoded second transport stream from the card to the STB (see paragraph 0008 of Unger et al.).

Regarding claim 23, Vince teaches all the limitations of claim 16, above. However, Vince does not teach wherein the host is a set top box (STB).

Unger et al. teaches wherein the host is a set top box (STB) (figure 2, reference number 36).

Form PCT/ISA/237 (Supplemental Box) (January 2004)

International application No. PCT/US05/02623

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Regarding claim 24, Vince as modified by Unger et al. teaches wherein the unit is a card configured to insert within a slot of the STB (see paragraph 0039 of Unger et al.).

Regarding claim 25, Vince teaches all the limitations of claim 16, above. However, Vince does not teach wherein the host is a digital video recorder (DVR).

Unger et al. teaches wherein the host is a digital video recorder (DVR) (figure 12, reference number 704).

Regarding claim 27, Vince teaches all the limitation of claim 26, above. However, Vince does not teach wherein the transcoder is included with a card configured to insert within a slot of the legacy STBs and wherein the STB includes onboard conditional access decryption capabilities.

Unger et al. teaches wherein the transcoder is included with a card configured to insert within a slot of the legacy STBs and wherein the STB includes onboard conditional access decryption capabilities (figure 2, reference number 40 and paragraph 0039).

Regarding claim 28, Vince as modified by Unger et al. teaches wherein the DTV signals are carried in payloads of a first transport stream (see figure 2, reference number 100' of Vince), and wherein the transcoding unit further comprising a demultiplexer for determining whether the first transport stream includes payloads associated with the AVC standards or the non-AVC standards and to transport payloads associated with the AVC standards to the transcoder and to transport payloads associated with the non-AVC standards to a multiplexer (see figure 1, reference number 30 of Vince), wherein the transcoder transcodes the payloads associated with the AVC standards to payloads associated with the non-AVC standards and outputs the transcoded payloads the multiplexer (see figure 2, reference number 120 of Vince), and wherein the multiplexer combines the bypassed payloads with the transcoded payloads to a second transport stream for output to the legacy STB (see figure 1, reference number 70 of Vince).

Claims 1-28 meet the criteria set out in PCT Article 33(4) and thus have industrial applicability because the subject matter claimed can be made or used in industry.